

Claims

1. A process for producing a dosage form in film form
5 for surface administration of at least one active
ingredient and/or nutrient to a living creature
comprising at least one active ingredient-containing
and/or nutrient-containing layer based on hydrophilic
polymers crosslinked with at least one polyacrylic acid
10 derivative by building up individual layers
successively on a smooth surface, characterized by the
steps:
a) simultaneous spraying of an aqueous solution of the
hydrophilic polymers and of the active ingredient
15 and/or of the nutrient and of an aqueous solution of
the polyacrylic acid derivative,
b) removal of the water by drying.
2. The production process as claimed in claim 1,
20 characterized in that an optionally crosslinked
polyacrylic acid, preferably a polyacrylic acid
crosslinked with allylsucrose or allylpentaerythritol
and/or a polyacrylic acid crosslinked with
divinylglycol, where appropriate neutralized with
25 calcium, is used as polyacrylic acid derivative.
3. The production process as claimed in claim 1 or 2,
characterized in that hydroxypropylmethylcellulose,
hydroxyethylcellulose and/or methylcellulose,
30 preferably hydroxypropylmethylcellulose, is employed as
hydrophilic polymer.
4. The production process as claimed in any of claims
1 to 3, characterized in that the weight ratio of
35 hydrophilic polymers to polyacrylic acid derivative(s)
is from 5:1 to 5:4, preferably 5:2 to 5:3.

5. A dosage form produced as claimed in any of claims 1 to 4.

6. The dosage form as claimed in claim 5, characterized in that it has at least one active ingredient-containing and/or nutrient-containing layer, a covering layer and where appropriate an adhesive layer.

7. The dosage form as claimed in claim 5 or 6, characterized in that at least one active ingredient-containing layer has a concentration gradient of the active ingredient.

8. The dosage form as claimed in any of claims 5 to 7, characterized in that the covering layer is impermeable for the active ingredient and/or nutrient.

9. The dosage form as claimed in any of claims 5 to 8, characterized in that it is covered with a protective layer before application.